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IONIZING RADIATION-CURABLE INK AND PRINTED MATTER USING THE SAME

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- european:
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PROBLEM TO BE SOLVED: To obtain the subject ink that has sufficient receptivity in no need of long-time heating on its coating by admixing a liquid, water-soluble monomer and a water-absorbing polymer powder thereto. **SOLUTION:** This ink contains (A) 100 pts.wt. of a liquid and water soluble monomer and (B) 60-120 pts.wt., per 100 pts.wt. of the component A, of a powder of water-absorbing polymer. As a component A, is used a monomer that is polymerizable with radiation and compatible with water usually at room temperature at any ratio, for example, a (meth)acrylic ester of a polyhydric alcohol. The component B is a powder of a cross linked polyacrylic acid salt or of polyisobutylene preferably with an average particle size of 2-20 μ m. In the case where ultraviolet rays or visible rays are used as the irradiation, the formulation of a photo-polymerization initiator is recommended thereto in an amount of 2-5 wt. %.

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